

## Abstract

### A SYSTEM, METHOD, AND NETWORK FOR PROVIDING HIGH SPEED REMOTE ACCESS FROM ANY LOCATION CONNECTED BY A LOCAL LOOP TO A CENTRAL OFFICE

5 A telecommunication system for providing a remote access connection having a  
bandwidth of 128 Kbps or 144 Kbps to any location (homes, small businesses, etc.) connected  
to a central office by a local loop, and higher bandwidth for some locations. The 128 Kbps or  
144 Kbps is provided using ISDN Digital Subscriber Loop (IDSL) technology and higher  
bandwidth using other DSL technologies such as ADSL. Using shared equipment and  
10 transmission facilities, the present invention enables the high-speed remote access connections  
to be provided in a cost effective manner.

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